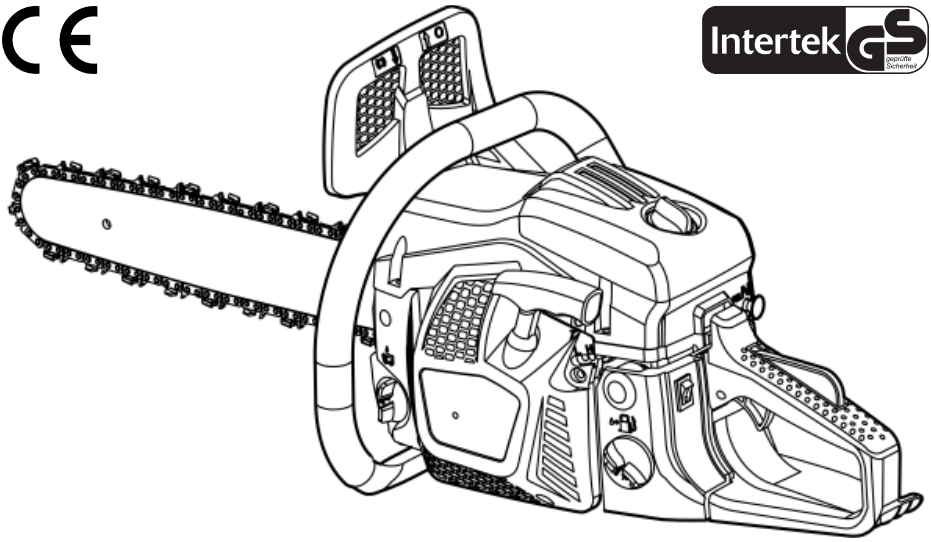
HYUNDAI

POWER EQUIPMENT

PETROL CHAINSAW

OPERATOR'S MANUAL



* IMPORTANT SAFETY INSTRUCTIONS

HYC3816 - HYC4618 - HYC5620

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Your safety and the safety of others is very important.

We have provided important safety messages in this manual and on the petrol engine. Please read these messages carefully.

A safety message alerts you to potential hazards that could hurt you or others. Each safety message is preceded by a safety alert symbol, as following:

⚠ WARNING

You CAN be KILLED or SERIOUSLY HURT if you don't follow instructions.

⚠ CAUTION

You CAN be HURT if you don't follow instructions.

NOTICE

Your machine or other property could be damaged if you don't follow instructions.

NOTE

Gives you helpful information.

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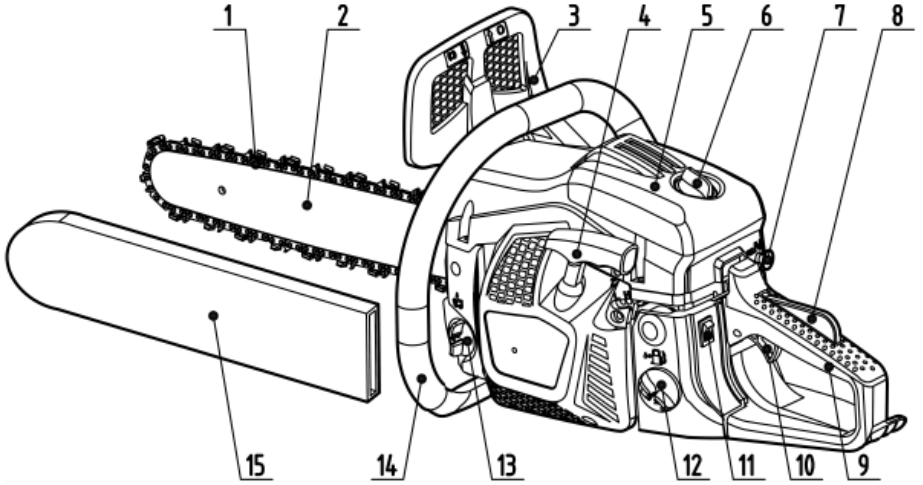
0. OPERATION NOTES

Attention ! Read these notes before you start working with the saw and keep them.
Read the instructions carefully. Familiarise with the control elements so that you are able to safely operate the device. Always keep these Operating Instructions together with the chain saw.
Attention! Risk of hearing defects.
Under normal operating conditions, this device can expose the operator to a noise level of 80 dB(A) or more.
Attention: Noise protection ! Please observe the local regulations when operating your device.

Intended / not intended use:

The chainsaw is used to saw trunks, square timbers and for cutting branches, according to the available cutting length. Only materials from wood may be worked on.
Sufficient personal protection equipment (PPE) is required according to the operating instructions during the use. This product is designed for use by a trained operator for cutting logs and felling trees. Damage or injuries resulting from misuse are the responsibility of the operator, no liability shall be taken by the supplier or manufacturer for misuse. Only use saw chains and guide bars recommended in the operating instructions for this model. Operators of this machine, must read this operators manual and be fully trained and familiar with this chainsaw and think over all the possible dangers. Any modifications to the machine will void the manufacturer's warranty. This equipment is designed for use in the home garden.

1. PARTS LOCATION



1. Saw chain
2. Guide bar
3. Front hand guard
4. Starter handle
5. Air filter cover
6. Air filter lock nut
7. Choke knob
8. Throttle trigger lock-out
9. Rear handle
10. Throttle trigger
11. Engine switch
12. Fuel tank
13. Oil tank
14. Front handle
15. Guide bar scabbard

2. MACHINE SYMBOLS

Read, understand and follow all warnings

Warning! Danger of kickback. Beware of chain saw kickback and avoid contact with bar tip

NEVER use chain saw one-handed

Always use chain saw with both hands

Appropriate ear, eye, and head protection must be worn

Read operator's instruction book before operating this machine

Always wear safety and anti-vibration(AV) gloves when operating the device

Always wear appropriate leg protection and safety and slip-resistant boots when operating the device

For safe and easy operation and maintenance, these symbols are marked on the machine:

Fuel - use 40:1 unleaded petrol and 2-stroke oil
Located near the fuel cap

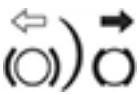
Oil - The filler cap to refill the chain oil
Located near the oil cap

Engine ON/OFF switch - Flipping the switch to the “O” position, immediately stops the engine
Located on the left side of the rear handle

Operate the choke knob - Pull out the choke knob to stop. Push in the choke knob when started.
Located at the right side of the rear handle

Adjust the oil pump
If you turn the oil adjuster with a screwdriver to the “MAX” position, the chain oil will flow more, and if you turn to the “MIN” position, flow less
Located at the bottom of the power unit

The screw next to the “H” stamp is The High-speed mixture adjustment screw.
The screw next to the “L” stamp is The Slow-speed mixture adjustment screw.
The screw next to the “T” stamp is the idle speed adjustment screw.
Located on the upper-left of the rear handle



Shows the directions that the chain brake is released (white arrow) and activated (black arrow).
Located on the front of the chain cover.

Shows the direction of the saw chain installation.
Located on the front of the chain cover.

Guaranteed maximum sound power level

Engine pull recoil start

3. SAFE OPERATION

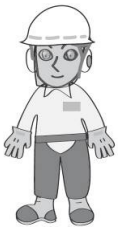
Before you operate this chainsaw:

Before using our products, please read this manual carefully to understand the proper use of your chainsaw.

Never operate a chainsaw when you are tired, ill, upset, or under the influence of medication that may make you drowsy, or if you are under the influence of alcohol or drugs.

Operate the chainsaw only in well ventilated areas. Never start or run the engine inside a closed room or building or a poorly ventilated area. Exhaust fumes contain dangerous carbon monoxide which can kill.

Never use in high wind, bad weather, when visibility is poor or in very high or low temperatures. Always check the tree for dead branches which could fall during the felling operation.

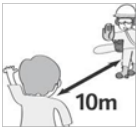


Use safety and slip-resistant footwear, protective trousers, snug fitting clothing and eye, hearing and head protection devices. Use the anti-vibration(AV) glove. It is believed that a condition called Raynaud's phenomenon, which affects the fingers of certain individuals may be brought about by exposure to vibration and cold. Loss of color and numbness in the fingers. The following precautions are strongly recommended because the minimum exposure which might trigger the ailment is unknown.

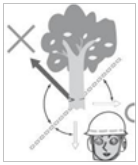
Keep your body warm, especially your head, neck, feet, ankles, hands and wrists.
Maintain good blood circulation by performing vigorous arm exercises during frequent work breaks. Keep the saw chain sharp and the saw, including the AV (Anti-Vibration) system, well maintained. A blunt chain will increase cutting time, and pressing a blunt chain through wood will increase the vibrations transmitted to your hands. A saw with loose components or with damaged or worn AV buffers will also tend to have higher vibration levels. Limit the hours of operation.
All the above mentioned precautions do not guarantee that you will not sustain white finger disease or carpal tunnel syndrome. Therefore, continual and regular users should monitor closely the condition of their hands fingers.
If any of the above symptoms appear, seek medical advice immediately.

Always use caution when handling fuel. Wipe up all spills and then move the chain saw at least 3 metres from the fueling point before starting the engine.

Eliminate all sources of sparks or flame (e.g. smoking, open flames, or work that can cause sparks) in the areas where fuel is mixed, poured, or stored.
Do not smoke while handling fuel or while operating the chain saw.



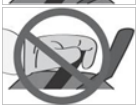
Do not allow other persons to be near the chain saw when starting the engine or cutting a wood. Keep bystanders and animals out of the work area. Children, pets, and bystanders should be a minimum of 10 metres away when you start or operate the chain saw.



Never start cutting until you have a clear work area, secure footing, and planned retreat path from the falling tree.

Always hold the chainsaw firmly with both hands when the engine is running. Use a firm grip with thumb and fingers gripping the chain saw handles.

Keep all parts of your body away from the saw chain when the engine is running. Before you start the engine, make sure the saw chain is not contacting anything.



Always carry the chain saw with the engine stopped, the guide bar and saw chain to the rear, and the muffler away from your body.

Always inspect the chain saw before each use for worn, loose, or changed parts. Never operate a chain saw that is damaged, improperly adjusted, or is not completely and securely assembled. Be sure that the saw chain stops moving when the throttle control trigger is released.

All chainsaw service, other than the items listed in the Operator's Manual, should be performed by competent chainsaw service personnel. (e.g., if improper tools are used to remove the flywheel, or if an improper tool is used to hold the flywheel in order to remove the clutch, structural damage to the flywheel could occur which could subsequently cause the flywheel to disintegrate).

Always shut off the engine before setting it down.

Use extreme caution when cutting small size brush and saplings because slender material may catch the saw chain and be whipped toward you or pull you off balance.

When cutting a branch that is under tension, be alert for spring back so that you will not be struck when the tension in the wood fibers is released.

Keep the handles dry, clean and free of oil or fuel mixture.

Guard against kickback. Kickback is the upward motion of the guide bar which occurs when the saw chain at the nose of the guide bar contacts an object. Kickback can lead to dangerous loss of control of the chain saw.

When transporting your chain saw, make sure the appropriate guide bar cover is in place. Securely place the machine during transport to prevent loss of fuel, damage or injury.

⚠ WARNING

Kickback may occur when the nose or tip of the guide bar touches an object, or when the wood closes in and pinches the saw chain in the cut. Tip contact in some cases may cause a lightning fast reverse reaction, kicking the guide bar up and back towards the operator. Pinching the saw chain along the top of the guide bar may push the guide bar rapidly back towards the operator. Either of these reactions may cause you to lose control of the saw which could result in serious personal injury.

Do not rely exclusively on the safety devices built into your saw. As a chain saw user you should take several steps to keep cutting jobs free from accident or injury.

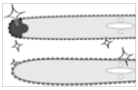
With a basic understanding of kickback you can reduce or eliminate the element of surprise. Sudden surprise contributes to accidents.

Keep a good grip on the saw with both hands, the right hand on the rear handle, and the left hand on the front handle, when the engine is running. Use a firm grip with thumbs and fingers encircling the chain saw handles. A firm grip will help you reduce kickback and maintain control of the saw. Don't let go.

Make certain that the area in which you're cutting is free from obstructions. Do not let the nose of the guide bar contact a log, branch, or any other obstruction which could be hit while you are operating the saw.

Cut at high engine speeds.

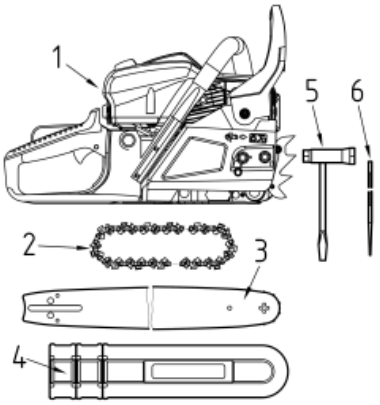
Do not overreach or cut above shoulder height.



Follow manufacturers sharpening and maintenance instructions for saw chain.

Only use replacement bars and chains specified by the manufacturer or the equivalent.

4. INSTALLING GUIDE BAR & CHAIN



A standard saw unit package contains the items as shown below:

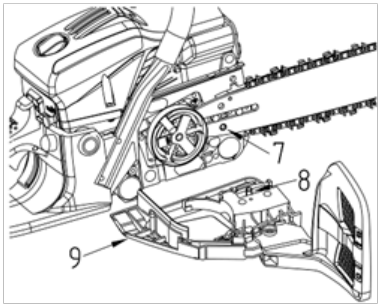
1. Power unit
2. Saw chain
3. Guide bar
4. Guide bar cover
5. Sparkplug wrench
6. File

Open the box and install the guide bar and the saw chain on the power unit as follows.

⚠ WARNING

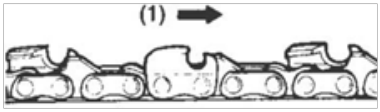
The saw chain has very sharp edges. Use protective gloves for safety.

1. Pull the guard towards the front handle to check that the chain brake is not on.
2. Loosen a nut and remove the chain cover and spacer.
3. Fit the chain to the sprocket and, while fitting the saw chain around the guide bar, mount the guide bar to the power unit. Adjust the position of chain tensioner nut.

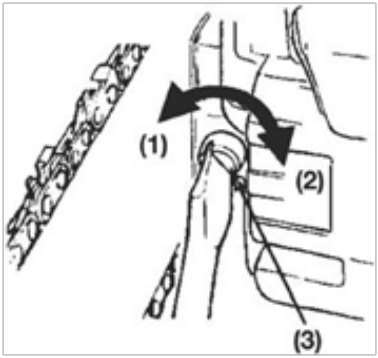


7. Hole
8. Chain tensioner nut
9. Clutch cover

NOTE



Pay attention to the correct direction of the saw chain (1)



(1) Loosen
(2) Tighten
(3) Chain tension ajusting screw

Mount the guide bar then fit the saw chain around the bar and sprocket. Fit the chain tensioner nut into the lower hole of the guide bar, then install the chain cover, and fasten the mounting nut to finger tightness. While holding up the tip of the bar, adjust the chain tension by turning the tensioner screw until the tie straps just touch the bottom side of the bar rail. Tighten the nuts securely with the bar tip held up (12 ~ 15 Nm). Then check the chain for smooth rotation and proper tension while moving it by a gloved hand. If necessary, readjust with the chain cover loose. Tighten the tensioner screw.

NOTICE

It is very important to maintain the proper chain tension. Rapid wear of the guide bar or the chain coming off easily can be caused by improper tension. Especially when using a new chain, take good care of it since it may stretch when first used.
The Spiked bumper belongs to the chain saw. It must be screwed up on chain saw before the initial use. Please fix the spiked bumper with two screws on the forefront of the chain saw.

5. FUEL & CHAIN OIL

Fuel
The engines are lubricated by oil specially formulated for air-cooled 2-stroke petrol engine use.
RECOMMENDED MIXING RATIO
GASOLINE 40 : OIL 1
These engines are certified to operate on unleaded petrol.

⚠ WARNING

The fuel is highly flammable. Do not smoke or bring any flame or sparks near fuel.

NOTICE

1. **FUEL WITH NO OIL (STRAIGHT PETROL)** will cause severe damage to the engine inner parts very quickly.
2. **OIL FOR 4-CYCLE ENGINE USE or WATER COOLED 2-CYCLE ENGINE USE** – This can cause spark plug fouling, exhaust port blocking, or piston ring sticking.

HOW TO MIX FUEL

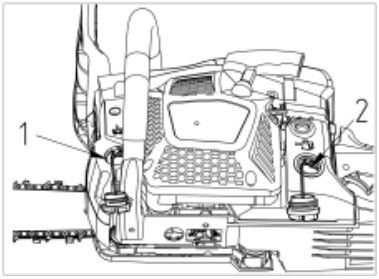
1. Measure out the correct quantities of petrol and 2-stroke oil to be mixed.
2. Put some of the gasoline into a clean, approved fuel container.
3. Pour in all of the oil and shake well.
4. Pour in the rest of petrol and shake again for at least one minute.
5. Put a clear indication on the outside of the container to avoid mixing up with straight petrol or other containers.

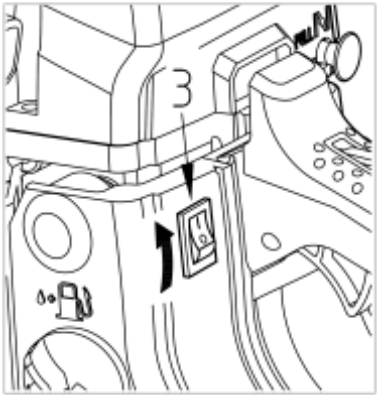
CHAIN OIL
Use special chainsaw oil.

NOTE

Do not use waste or regenerated oil - this may cause damage to the oil pump and increase chain and bar wear.

6. OPERATION





STARTING ENGINE

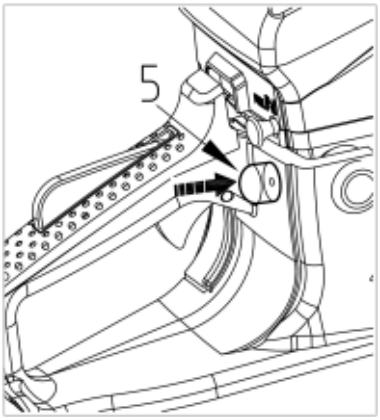
1. Untwist and remove the fuel cap and oil cap. Rest two caps on a clean surface.
2. Put fuel/oil mix into the fuel tank and the chain oil tank to 80% of the full capacity.
3. Fasten two caps securely and wipe up any fuel spillage around the unit.
4. Put the switch to the “I” position.

5. Continuously push the priming bulb until fuel comes in the bulb.
6. Pull out the choke knob. The choke will close and the throttle lever will then be set in the starting position.

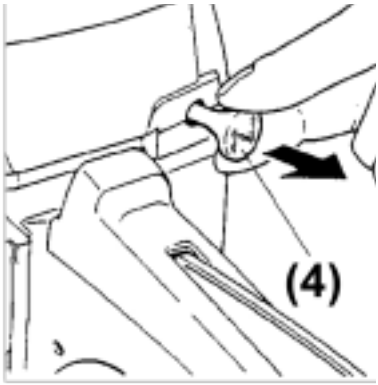
NOTE

When restarting immediately after stopping the engine. Set choke in the open position

Once the choke knob has been pulled out, it will not return to the operating position even if you press down on it with your finger. When you wish to return the choke knob to the operating position, operate the throttle trigger instead.



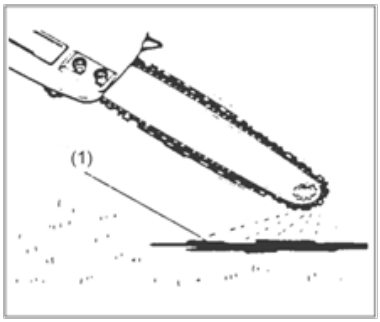
7. Push the front handle guard down toward the front to activate the chain brake.
8. While holding the saw unit securely on the ground, pull the starter rope vigorously.
9. When firing occurs, push in the choke knob and pull the starter again to start the engine.
10. Pull up the front handle guard toward the front handle to release brake. Then, allow the engine to warm up with the trigger pulled slightly.



(1) Oil
(2) Fuel
(3) Engine switch
(4) Choke knob
(5) Primer bulb

⚠ WARNING

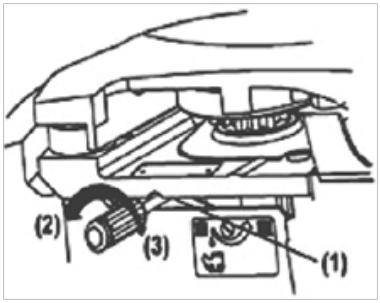
Before you start the engine, make sure the saw chain is not touching anything. Make sure the chain brake is always activated each time you start the engine.



CHECKING OIL SUPPLY
After starting the engine, run the chain at medium speed and see if chain oil is scattered off as shown in the figure.

(1) Chain oil

The chain oil flow can be changed by inserting a screwdriver in the hole on bottom of the clutch side. Adjust according to your work conditions.
(1) Chain oil flow adjusting shaft
(2) Ant-clockwise - Rich
(3) Clockwise - Lean



NOTICE

The oil tank should become nearly empty by the time fuel is used up. Be sure to refill the oil tank every time you re-fuel the chainsaw.

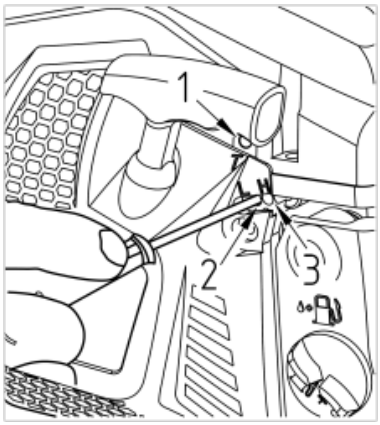
CHECKING FUNCTIONALITY OF THE CLUTCH
Before each use, you should confirm that there is no chain movement when the engine is running at idling speed.

ADJUSTING CARBURETTOR
The carburetor on your unit has been factory adjusted, but may require fine tuning due to change in operating conditions. If the carburettor needs to be adjusted, contact your dealer. Before adjusting the carburettor, make sure that air/fuel filters are clean and you are using fresh, properly mixed fuel.

When adjusting, take the following steps:

NOTICE

Be sure to adjust the carburettor with the bar and chain attached.



1. H and L needles are restricted within the number of turn as shown below. **H needle – 1/4 L needle – 1/4**
2. Start engine and allow it to warm up in low speed for a few minutes.
3. Turn idle adjusting screw (T) counter-clockwise so that saw chain does not turn. If idling speed is too slow, turn the screw clockwise.
4. Make a test cut adjust the H needle for best cutting power, not for maximum speed.

(1) Idle adjusting screw
(2) L needle
(3) H needle

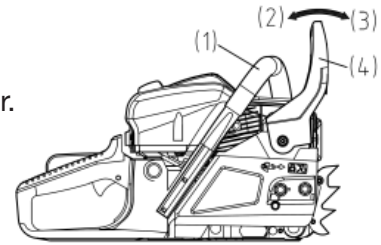
CHAIN BRAKE

The chain brake is a device which stops the chain instantaneously if the chain saw recoils due to kickback.

Normally, the brake is activated automatically by inertial force. It can also be activated manually by pushing the brake lever (Front handle guard) down toward the front.

When the brake operates, a white cone pops up from the base of the brake lever.

(1) Front handle (2) Release
(3) Brake (4) Front handle guard

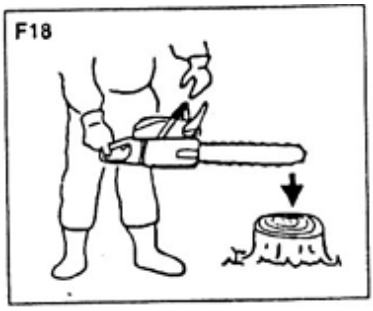


To release brake, pull up the front handle guard toward the front handle until a “click” is heard.

⚠ WARNING

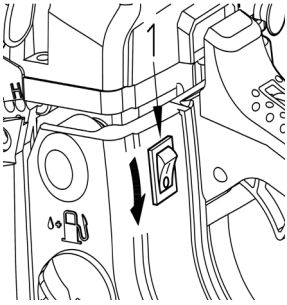
When the brake operates, release the throttle lever to slow down the engine speed. Continuous operation with the brake engaged will generate heat from the clutch and may cause serious damage to the clutch.
Be sure to confirm brake operation on the daily inspection.

How to confirm:
1) Turn off the engine and push brake handle forward.
2) Holding the chainsaw in a horizontal position, let go of the front handle and rest the chain on a piece of wood or tree stump, push the chainsaw forward, the brake should hold the chain firm on the bar. Resistance level can vary depending on bar size.
If the chain brake is not effective, ask your dealer to inspect the machine and adjust or repair the brake



Stopping the engine
1. Release the throttle lever to allow the engine to idle for a few minutes.
2. Move the engine switch to the ‘OFF’ position

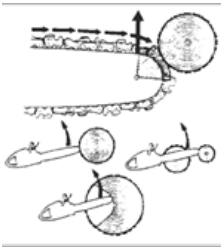
(1) Engine switch



7. SAWING

⚠ WARNING

Before proceeding to your job, read “Safe Operation” section. It is recommended to first practice sawing easy logs. This also helps you get accustomed to your chainsaw.
Always follow all the safety regulations applicable to this machine. The chainsaw must only be used for cutting wood. It is forbidden to cut other types of material. Vibrations and kickback vary with different materials and the requirements of the safety regulations would not be respected. Do not use the chain saw as a lever for lifting, moving or splitting objects. Do not lock it over fixed stands. It is forbidden to hitch tools or applications to the P.T.O. that are not specified by the manufacturer.
It is not necessary to force the saw into the cut. Apply only light pressure while running the engine at full throttle.
It is recommended that daily inspection before use and after dropping or other impacts to identify significant damage or defects.



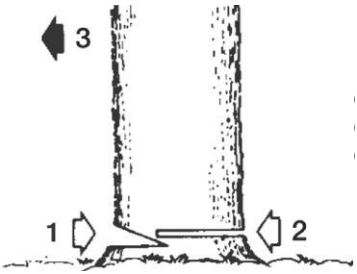
Racing the engine with the chain seized in a cutaway can damage the clutch system. When the saw chain is caught in the cut, do not attempt to pull it out by force, but use a wedge or a lever to open the cut.

Guard against kickback

This saw is also equipped with a chain brake that will stop the chain in the event of kickback if operating properly. You must check the chain brake operation before each usage by running the saw at full throttle for 1 or 2 seconds and pushing the front hand guard forward. The chain should stop immediately with the engine at full speed. If the chain is slow to stop or does not stop then replace the brake band and clutch drum before use.

It is extremely important that the chain brake is checked for proper operation before each use and that the chain is sharp in order to maintain the kickback safety level of this saw. Removal of the safety devices, inadequate maintenance, or incorrect replacement of the bar or chain may increase the risk of serious personal injury due to kickback.

Felling a tree



1. Decide the felling direction considering the wind, lean of the tree, location of heavy branches, ease of job after felling, and other factors .
2. While clearing the area around the tree, arrange a good foothold and retreat path.
3. Make a notch cut one-third of the way into the tree on the felling side.
4. Make a felling cut from the opposite side of the notch and at a level slightly higher than the bottom of the notch.

⚠ WARNING

When you fell a tree, be sure to warn your neighboring workers of the danger.
(1) Notch cut (2) Felling cut (3) Felling direction

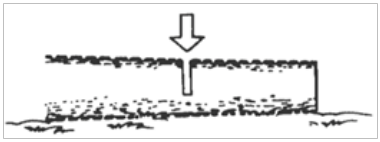
LOGGING

⚠ WARNING

1. Always ensure your foothold as well as stability of the tree.
2. Be alert to the rolling over of a cut log.
3. Read the instructions in “For Safe Operation” to avoid kickback of the saw.

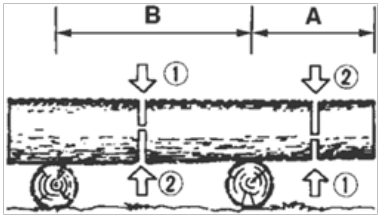
Before starting work, check the direction of bending force inside the log to be cut.

Always finish cutting from the opposite side of bending direction to prevent the guide bar from being caught in the cutaway.



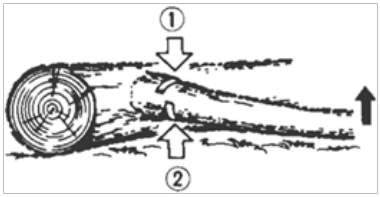
Cutting an unpillowed log

Saw down halfway, then roll the log over and cut from the opposite side.



Cutting a pillowed log

In the area (A) in the picture right above, saw up from the bottom one-third and finish by sawing down from the top. In the area (B), saw down from the top one-third and finish by sawing up from the bottom.



Limbing a felled tree

First check which way the limb is bent. Then make a shallow cut into the compressed side to prevent the limb from being torn. Cut through from the tensed side.

⚠ WARNING

Be alert to the spring back of a cut limb.

LOGGING

Cut up from the bottom, finish down from the top.

⚠ WARNING

1. Do not use an unstable foothold or a stepladder.
2. Do not overreach.
3. Do not cut above shoulder height.
4. Always use both hands to grip the saw.

⚠ WARNING

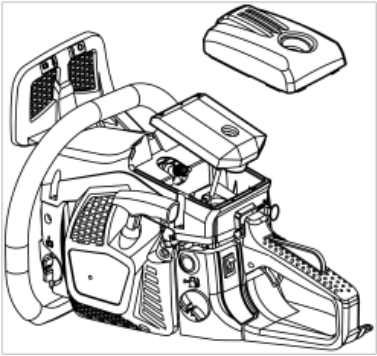
5. The Spiked bumper must always be put on while using the chain saw on tree trunk. Push the spiked bumper into the tree trunk by using the rear handle. Push the front handle in the direction of cutting line. The spiked bumper must be remaining set for further saw guiding if necessary. Use a spiked bumper when cutting trees and thick branches can ensure your safety and decrease the working strength and vibration level.

If there's barrier between the cutting material and chainsaw, turn off the machine. Wait until it stops completely. Wear the safety gloves and remove the barrier. If the chain must be removed, please follow the instruction in manual. A trial run must be conducted after the re-assembly. If vibration or mechanical noise is discovered, please stop and contact your dealer.

8. GENERAL MAINTENANCE

⚠ WARNING

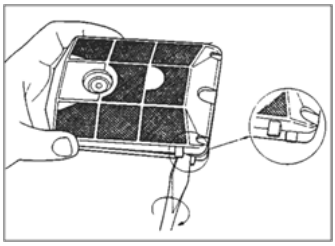
Before cleaning, inspecting or repairing your chainsaw, make sure the engine has stopped and is cool. Disconnect the spark plug to prevent accidental starting.



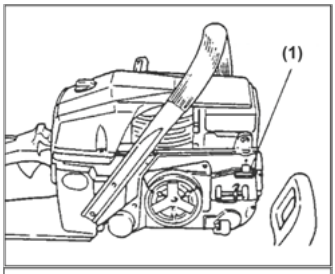
Follow the instructions to carry out regular maintenance, pre-operating procedures and daily maintenance routines. Improper maintenance may result in serious damage to the machine.

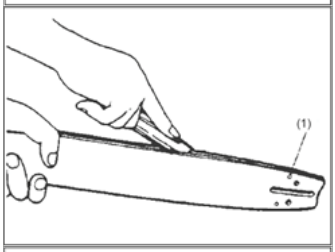
Maintenance after each use

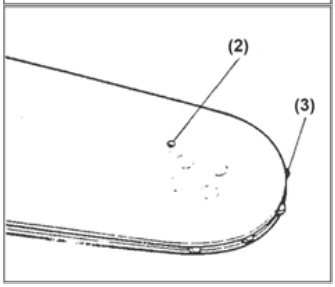
1. Air filter



Dust on the cleaner surface can be removed by tapping a corner of the cleaner against a hard surface. To clean dirt in the meshes, split the cleaner into halves and brush in gasoline. When using compressed air, blow from the inside. To assemble the cleaner halves, press the rim until it clicks.







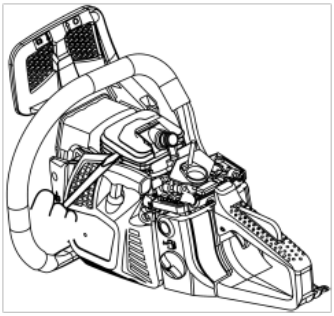
2. Chain oil port
Dismount the guide bar and check the chain oil port for clogging.
(1) Chain oil port

3. Guide bar
When the guide bar is dismounted, remove sawdust in the bar groove and the oiling port.
Grease the nose sprocket from the feeding port on the tip of the bar.

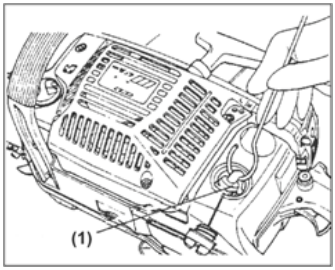
(1) Oiling port
(2) Grease port
(3) Sprocket

4. Others
Check for fuel leakage and loose fastenings and damage to major parts, especially handle joints and guide bar mounting. If any defects are found, make sure to have them repaired before operating again.

Periodical service points
1. Cylinder fins
Dust clogging between the cylinder fins will cause overheating of the engine. Periodically check and clean the cylinder fins after removing the air cleaner and the cylinder cover. When installing the cylinder cover, make sure that switch wires and grommets are positioned correctly in place.



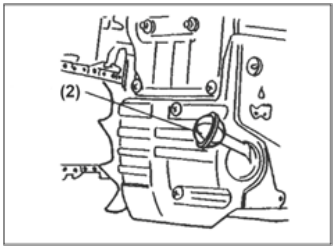
2. Fuel filter



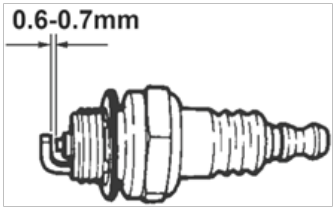
(a) Using a wire hook, take out the filter from the filler port.
(b) Remove the filter and wash with petrol, or replace with a new one if needed. (1) Filter

NOTICE

• After removing the filter, use a pinch tool to hold the end of the suction pipe.
• When assembling the filter, take care not to allow filter fibers or dust inside the suction pipe.

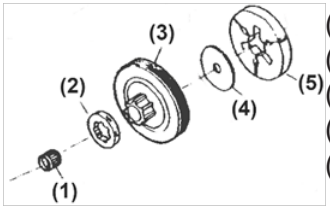


3. Oil tank
With a wire hook, take out the oil filter through the filler port and clean in petrol. When putting the filter back into the tank, make sure that it comes to the front right corner. Also clean off dirt in the tank.
(2) Oil Filter



4. Spark plug
Clean the electrodes with a soft wire brush or spark plug cleaner and reset the gap to 0.65mm.
Spark plug type NHSP LD L8RTF or CHAMPION RCJ7Y or NGK BPMR7A

5. Sprocket
Check for cracks and for excessive wear interfering with the chain drive. If the wear is found, replace it with a new one. Never fit a new chain on a worn sprocket, or a worn chain on a new sprocket.

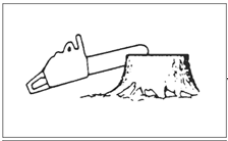


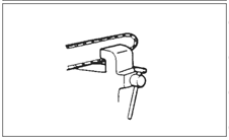
(1) Needle bearing
(2) Sprocket
(3) Clutch drum
(4) Washer
(5) Clutch block

9. BAR & CHAIN MAINTENANCE

Saw chain

⚠ WARNING





It is very important for smooth and safe operation to keep the chain sharp at all times.

Your cutters need to be sharpened when:

- Sawdust becomes powder-like.
- You need extra force to saw.
- The cut does not go straight.
- Vibration increases.
- Fuel consumption increases.

Cutter setting standards:

⚠ WARNING

Be sure to wear safety gloves.

Before filing:

- Make sure the saw chain is held securely.
- Make sure the engine is stopped.
- Use a round file of proper size for your chain.

Chain type:

Oregon

Place your file on the cutter and push straight forward.

Keep the file position as illustrated.

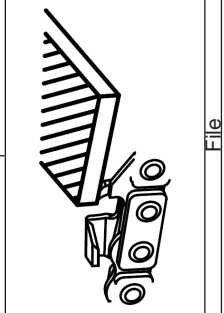
After every cutter has been set, check the depth gauge and file it to the proper level as illustrated.

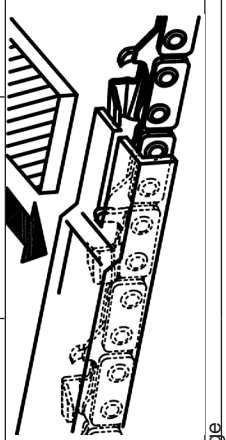
⚠ WARNING

Be sure to round off the front edge to reduce the chance of kickback or tie-strap breakage.

Make sure every cutter has the same length and edge angles as illustrated.

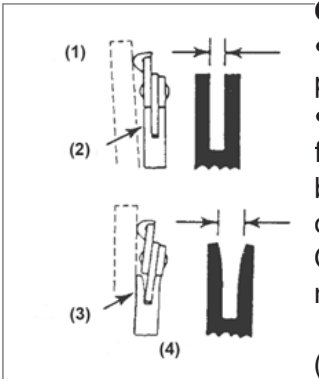
Type of chain	File diameter	Top plate angle	Down angle	Head tilt angle (55°)	Depth gauge
				Side angle	
		Vise rotate angle	Vise tilt angle		
21BPX	3/16"	30°	10°	85°	0.025"





Depth gauge

File



Guide bar

• Reverse the bar occasionally to prevent partial wear.

• The bar rail should always be square. Check for wear of the bar rail. Apply a ruler to the bar and the outside of a cutter. If a gap is observed between them, the rail is normal. Otherwise, the bar rail is worn. Such a bar needs to be corrected or replaced.

(1) Ruler (2) Gap (3) No gap (4) Chain tilts

⚠ WARNING

The table contains a list of all possible combinations between bar and chain.

Pitch	Guide bar			Chain
	Length Inches/ cm	Groove width Inches/mm	Code	Code
0.325”	16”/40cm	0.058”/1.5mm	Oregon 168PXBK095	Oregon 21BPX066X
0.325”	18”/45cm	0.058”/1.5mm	Oregon 188PXBK095	Oregon 21BPX072X
0.325”	20”/50cm	0.058”/1.5mm	Oregon 208PXBK095	Oregon 21BPX078X

For replacement use only above bars and chains. If you use non-approved combinations it may cause serious personal injury and damage to the machine.

10. STORAGE

1. Empty the fuel tank and run the engine out of fuel.
2. Empty the oil tank.
3. Clean the entire unit.
4. Store the unit in a dry place out of the reach of children

11. ENVIRONMENTAL DISPOSAL

Never pour remainders of chain lubricant or 2-stroke fuel mixture in the drain or sewerage system or soil, but dispose of it in a proper, environmentally friendly way, e.g., at a special collecting point or dump.

At the end of your chainsaw's life, dispose of it in an environmentally friendly manner. Thoroughly empty the oil/lubricant and fuel tanks and dispose of the remainders at a special collecting point or dump. Please also dispose of the device itself at a collecting/recycling point. By doing so, plastic and metal parts can be separated and recycled. Information concerning the disposal of materials and devices are available from your local authority.

12. WARRANTY

For this petrol tool, the company provides the end user - independently from the retailer‘s obligations resulting from the purchasing contract - with the following warranties:
The warranty period is 24 months beginning from the hand-over of the device which has to be proved by the original purchasing document. For commercial use the warranty period is reduced to 12 months and rental 90 days. Wearing parts and defects caused by the use of non genuine parts, use of force, impact damage as well as mischievous overloading of the motor are excluded from this warranty. Warranty replacement does only include defective parts, not complete devices. Warranty repair shall exclusively be carried out by authorized service partners or by the company‘s customer service. In the case of any intervention of non authorized personnel, the warranty will become void.
All postage or delivery costs as well as any other subsequent expenses will be borne by the customer.

Genpower Ltd confirms that this Hyundai petrol chainsaw conforms to the following CE directives:

- 2006/42/EC Machinery directive
- 2004/108/EC EMC directive
- 2000/14/EC Noise emissions directive
- 97/68/EC NRMM Emissions directive

13. TROUBLESHOOTING

PROBLEM	PROBABLE CAUSE(S)	CORRECTIVE ACTION(S)
Engine does not start	Water in fuel or substandard mixture	Replace Fuel
	Engine Flooding	Remove and dry the spark plug. Start engine without choke
	None or bad spark ignition	Replace Plug
Lack of Power / Poor acceleration / Rough Idling	Water in fuel or substandard mixture	Replace Fuel
	Clogged Air or Fuel Filter	Clean
	Badly adjusted carburettor	Adjust speed needles
Oil does not come out	Bad Oil Quality	Replace
	Clogged Oil Passage	Clean

14. SPECIFICATIONS

Model	HYC3816	HYC4618	HYC5620
Displacement	37.02cc	45.02cc	56cc
Engine Power	1.2kW	1.7kW	2.4kW
Fuel	Mixture (Unleaded Petrol / Two-Cycle Oil) - 40:1		
Fuel Tank Capacity	550ml		
Chain Oil	SAE 10W30 Engine Oil		
Oil Tank Capacity	260ml		
Carburettor	Walboro (Diaphragm)		
Fuel Consumption	460g/kw·h	460g/kw·h	480g/kw·h
Idling Speed	3000±300r/min		
Maximum Speed w/ Cutting	11,000r/min		
Maximum Chain Speed	21.2m/s		
Ignition System	C.D.I. with Timing Advance Function		
Spark Plug	NGK BPMR7A		
Oil Feeding System	Mechanical Plunger Pump with Adjuster		
Sprocket Teeth x Pitch	7T×0.325in		
Dimensions	410mm × 250mm × 285mm		
Sound Level (Measured)	99.5dB(A)		101.0dB(A)
Sound Level (Operation)	112.4dB(A)		113.4dB(A)
Vibration (Front/Rear)	8.9m/s2 / 10.7m/s2		9.9m/s2 / 9.9m/s2

Guide Bar & Saw Chain

Model	HYC3816	HYC4618	HYC5620
Bar Type	Sprocket Nose		
Bar Size	16”	18”	20”
Cutting Length	390mm	440mm	490mm
Chain Type	Oregon		

15. DECLARATION OF CONFORMITY

The undersigned, as authorised by: Genpower Ltd
Declares that the following equipment manufactured under licence by Hyundai Corporation, Korea.
Conforms to the Directive:-

2000/14/EC (as amended)

of the European Parliament and of the council on the approximation of the laws of the Member States relating to the noise emission in the environment by equipment for use outdoors.

Equipment Category: Chainsaw
Product Name/Model: HYC3816, HYC4618, HYC5620
Type/Serial No: Petrol chainsaw
Cutting Width: 16" bar = 370mm cut / 18" bar = 390mm / 20" bar = 440mm
Net installed power: 1.2kw / 2.1kw / 2.35kw

The technical documentation is kept by:

Roland Llewellin
Genpower Ltd,
Unit 1 Dowty Park,
Thornton Road,
Milford Haven,
Pembrokeshire.
SA73 2RS

The conformity assessment procedure followed was in according with annex VI of the Directive.

Notified Body: Intertek Testing Services, Shanghai.
Measured Sound Power Level: 100dB(A) / 100dB(A)/ 101dB(A)
Guaranteed Sound Power Level: 112dB(A) / 112dB(A) / 115dB(A)

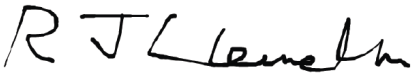
A copy of this certificate has been submitted to the European Commission and to EU Member State United Kingdom.

Place of Declaration: Milford Haven

Date: 10/06/2013
Signed by: Roland Llewellin
Position in Company: Director
Name and address of manufacturer or authorised representative:

Genpower Ltd,
Unit 1 Dowty Park,
Thornton Road,
Milford Haven,
Pembrokeshire.
SA73 2RS

Signed:



HYUNDAI
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